

- C1
Cental
59. (Amended) A reactor as in claim 58, wherein the inlet is connectable to a source of a chemical or biological starting material.

Please add the following new claims.

- C2
102. (New) A reactor as in claim 58, wherein the starting material comprises cells.
103. (New) A reactor as in claim 102, further comprising at least one sensor of temperature, pH, oxygen concentration, or pressure.
104. (New) A reactor as in claim 102, further comprising sensors of each of temperature, pH, and oxygen concentration.
105. (New) A reactor as in claim 102, further comprising temperature control elements constructed and arranged to control temperature at at least one portion of the reactor.
106. (New) A reactor as in claim 58, wherein the starting material comprises a cell nutrient.
107. (New) A reactor as in claim 58, wherein the starting material comprises O₂.
108. (New) A reactor as in claim 58, wherein the starting material comprises CO₂.
109. (New) A reactor as in claim 58, wherein the starting material comprises N₂.
110. (New) A reactor as in claim 58, wherein the starting material is able to alter pH within the chamber.
111. (New) A reactor as in claim 58, further comprising temperature control elements constructed and arranged to control temperature at at least one portion of the reactor.